Thermo Dynamic Calculations for the Spinning Process of Synthetic Fibers, by V. Pechoc, 14 pp.

GERMAN, per, Faserforschung Textilt, Vol X, No 2, 1959, pp 62-67.

SLA 59-15815

Sci Jan 60 Vol 2, No 5

104, 787

Theoretical Studies on the Doffer Cylinder Diameter of Wool Carding Machines, by E Boroczy.

GERMAN, per, Faserforschung und Textiltechnik, Vol X, No 2, 1959, pp 67-75.

CBIRO 5051

Sci - Engr Apr 62 191,390

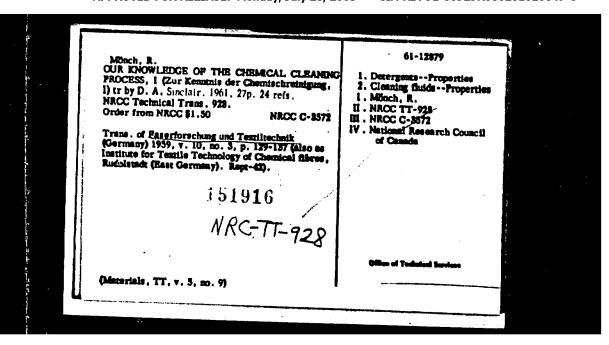
A Nethod for Measurement of Bulkiness of Fiber Flock, by Hermann, Visth, 31 p.

GRRMAN, per, Faserfor und Textilt, 1959, Vol X, No. No. 3, pp 104-114.

SIA 59-17263

Sci Dec 59 Vol 2, No 6

103,950



Investigation of the Problem of Filement Formation from Viscose Solutions, by E. Klare, A. Grobe, 6 p.

GERMAN, par, Fascrforsch und Tentiltech, 1959, Vol X, No 4, pp 155-158.

ATS-35L340

Sci Mar 60 Vol 2, No 11

109,618

Investigation of the Influence of the Precipitant on Filament Pormation During the Wet Spinning of Polyacrylonitrile, by V. Grobe, K. Mayer, 16 p.

GERMAN, per, Faserforsch u Textiltech, 1959, Vol. X, No 5, pp 214-224.

ATB-691330 (16)-4-921.65) SLA-63-18345(2814-92.60)

Sci Mar 60 Vol 2, Ho 11

109618

Anionic Polymerization of Lactans, Contribution to the Machanism of Rapid Caprolactam Polymerization, by Siegfried Schaaf, 20 p.

GERMAN, per, Faserforsch und Textil, 1959, Vol X, No 5, pp 224-231.

814 59-20892

Sci Mar 60 Vol 3, No 1

110,873

APPROVED FOR RELEASE: Monday, July 28, 2003

CIA-RDP91-00929R000201020047-6

Theoretical Set Characteristic of a Set of Cards for Woollen Yarn, by E. Boroczy.

GERMAN, per, Faserforschung und Textiltechnik, Vol X, No 6, 1959, yp 282-289.

CSIRO 4868

Sci - Chem

Jun 61

156,525

The Fire Structure of Polyamides. I. X-Ray Determination of the Fire Structure of Perlon-L Fibers Spun in Different Ways, by C. Ruscher, H. Versaumer,

Vol X, No 6, 1959, pp 245-248.

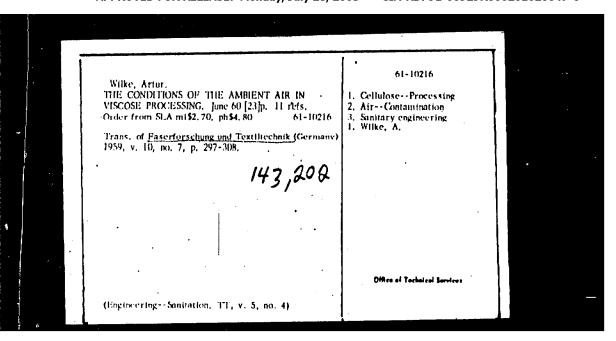
MB 346-01

HTS-971.35 @

Sci - Chem

Aug 60

123,330



On the Oridation of Cellulose with Mitrogen
Dioxide. A Continuous Process for Celluronic
Acid, by H. Demus.
GERMAN, per, Faserforsehung und Textiltechnik,
Vol 10, No 7, 1959, pp 319-327.
NTC-69-12948-11E

Sept 69

391,222

Breaking Strength of Filements as a Function of Specimen Length. III. A New Characteristic end Its Value for Different Types of Filements, by A. Sippel,

CERMAN, per, Fesenforsch und Textiltechnik, Vol X, No 8, 1959, pp 369-371.

AUG 353-GJ

Sci - Chem

Aug 60

123, 334

Schwertassek, Karl.
A SIMPLE METHOD TO DETERMINE THE FIXING DEGREE OF POLYAMIDE AND POLYESTER FIBERS. [1962] 16p. (figs. omitted) 8 refs.
Order from SLA \$1.60

Trans. of [Faserforschung und Textiltechnik]
(Germany) 1959, v. 10, no. 8, p. 387-392.

DESCRIPTORS: Polymers, *Amides, *Esters, *Synthetic fibers, *Silk, Sulfuric acid, Temperature, Separation, *Textiles, Processing.

The temperature is ascertained at which the test fiber dissolves in sulfuric acid of certain concentration within 4 to 5 or 3 to 4 seconds. The test was carried out macroscopically. Its application is described on polyamide-6- and polyamide-66 fibers as well as polyester silk. The method is simple in its execution and thus suitable for a running work control. (Author)

Office of Technical Services

Bobeth, Wolfgang and Piechottka, Gertraut.

MICROSCOPIC SWELLING STUDIES ON MECHANICALLY STREESED POLYAMIDE FIBERS. [1962] 10p. (15 figs. 3 tables omitted) 6 refs.
Order from SLA \$1.10 62-16622

Trans. of Faserforschung und Textiltechnik (Germany) 1959, v. 10, no. 10, p. 464-[472].

DESCRIPTORS: *Fibers, *Amides, *Polymers, Stresses, Microanalysis, Sulfurle acid.

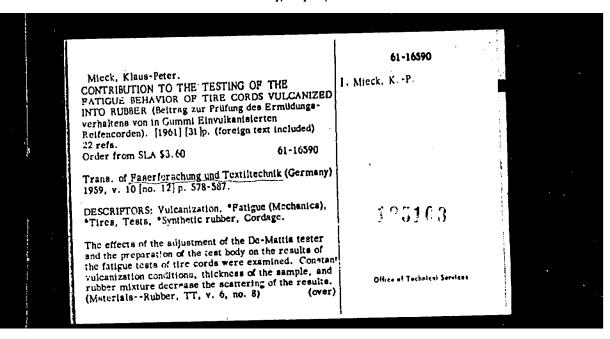
When exact experimental conditions are held constant, reproducible swelling studies on polyamides in sulfuric acid solution are possible. If the time interval is measured for the exactly defined swelling process, the result is a quantitative method of measuring and evaluating the qualitative state of polyamide fiber materials. It has been shown that graduated degrees of twisting, stretching, shearing, bending and sque-(Materials-Textiles, TT, v. 8, no. 6) Office of Techaical Services

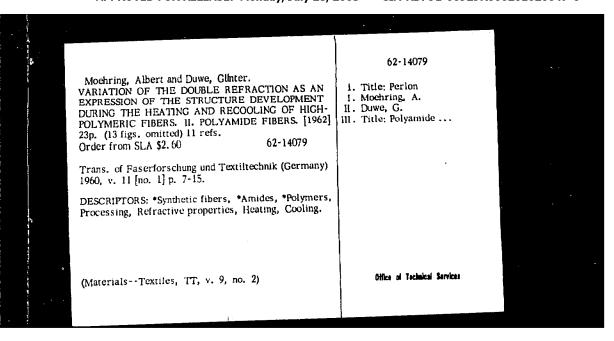
Influence of Various Properties of Top Roller Coverings of Synthetic Rubber Upon the Running Properties in the Drawing System of Cotton Ring Spinning Machines, by K. H. Banke,

GERMAN, per, Faserforschung und Textil-Technik, Vol X, 1959, No 11, 1959, pp 507-514.

GB/57/äkä3568T (906)

Sci Dec 62





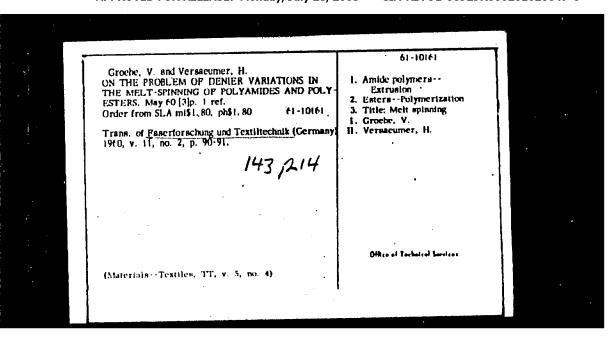
Investigations of the Effect of the Precipitant of Filament Formation in the Wet Spinning of Polyacrylonitrile. II. Pilot Scale Experiments, by V. Grobe, 14 pp.

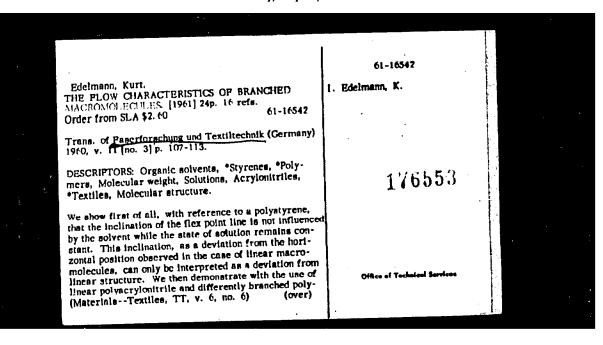
Vol XI, No 2, 1960, pp 53-62.

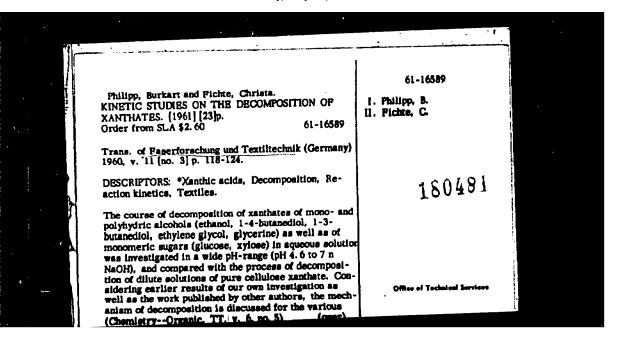
ATS-23#100 ATS-129-65

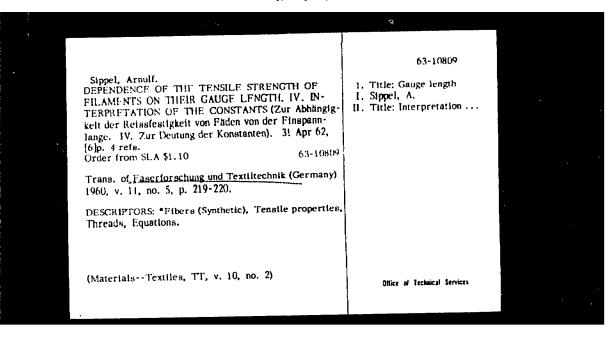
Sci 10 Mar 62 Vol 4, No 4

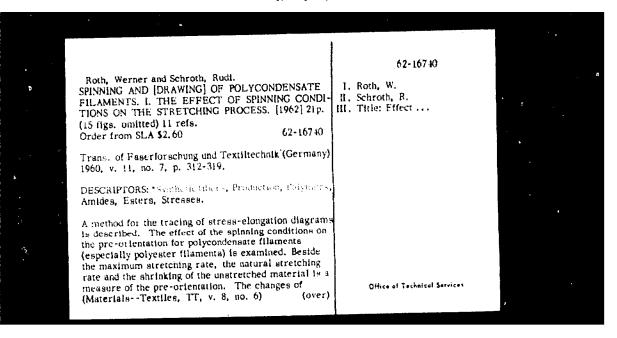
187,135





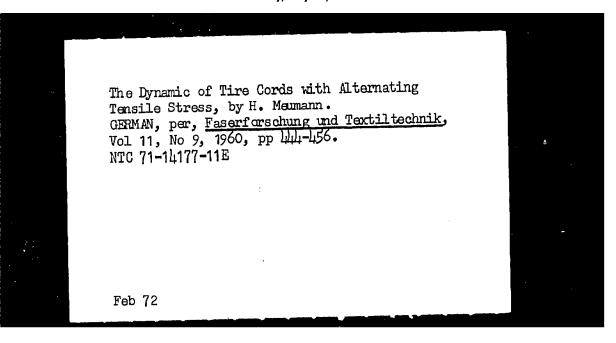






62-20378 Kresse, Peter. BLOCK-CONDENSATION OF POLYETHYLENE 1. Kresse, P. TEREPHTHALATE WITH POLYESTERS. [1962] 12p. (figs. omitted) 27 refs. 62-20378 Order from SLA \$1,60 Trans. of Faserforschung und Textiltechnik (Germany) 1960, v. 11, no. 8, p. 353-359. DESCRIPTORS: *Block polymers, *Pulyethylene plastics, *Phthalates, *Polyester plastics, Condensation reactions Dyes, Fibers (Synthetic). The interchange reactions taking place in the melt between polyethylene terephthalate and various poly-esters are examined and the factors determining their rate of reaction discussed. With shortened cocondensation times, block polyesters are prepared which may be spun into fibers having improved dyeing properties. Polyethylene hexahydroterephthalate is especially appropriate for the block component. (Author) (Materials -- Textiles, TT, v. 10, no. 1) Office of Technical Services

61-22493 Kern, Walter F. STRAINS TO WHICH CORD IS SUBJECT IN TIRES L. Kern, W. F. II. RIS C-147 AND DISCUSSION. Papers and discussion from Colloquium of Deutsche Rheologen-Vereinigung e V. [held at] Bad Ocynhausen, 23 Oct 59 [1961] 34p. 2 refs Order from RIS \$60.00 RIS C-147 III. Research Information Service, New York IV. Title: Colloquium... Trans. of Faserforschung und Textiltechnik (Germany) 1960, v. 11 [no. 9] p. 401-408 and 423-427. DESCRIPTORS: *Tires, Tests, Stresses, Test methods, *Cordage, Synthetic fibers 175316 Standard extension measuring strips have been used to evaluate the strains to which a tire is subject at different points and under different conditions, in order to characterize the complex nature of the demands made on the cord in a tire. It is found that the stresses do not occur sinusoidally, but in the form of impacts Office of Technical Services and shocks. The nature and the magnitude of the strains allow certain conclusions to be drawn concern-(Materials, TT, v. 6, no. 3) ing the testing of tire cord. (Author).



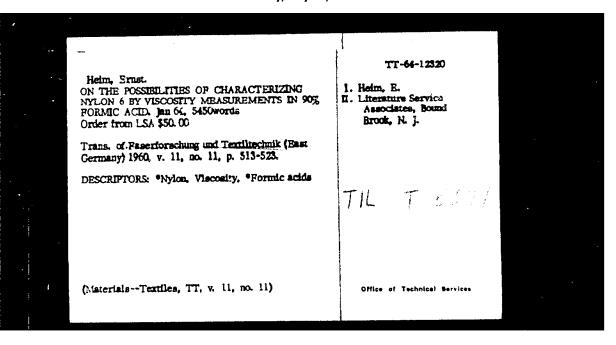
Analysis of the Operation of the Fancy on a Wollen Card, by E. Boroczy.

CERMAN, per, Faserforschung und Textiltechnik, Vol XI, No 10, 1960, pp 481-487.

CSIRO 5364

Sci - Engr Aug 62

207,459



Möhring, Albert and Duve, Günter.

ROD BIREFRINGENCE OF POLYACRYLONITRILE
FIBERS. [1961] [15]p. 12 refs.
Order from SLA \$1.50 61-20632

Trans. of Faserforschung und Textiltechnik (Germany)
1960, v. II, no. 12, p. 583-590.

DESCRIPTORS: *Acrylonitriles, *Polymers, *Synthetic
fibers, Permeability, Liquids, Chemical properties,
Light, *Refractive index, Moisture content, Porosity,
Adsorption, Temperature, Rods, Mathematical analysis, *Textile industry.

A rod birefringence could be clearly proved in wetspun PAN fibers in the spin-moistened state and after
drying at room temperature. These fibers, which have
a good permeability and which exhibit no, or only very
weak, swelling in most known imbibition media, have
(Materials-Textiles, TT, v. 7, no. 4) Office of Technical Services

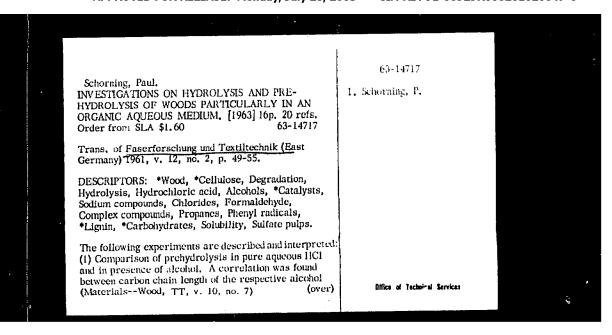
ZINC-CELLULOSE XANTHATION DURING SPINNING VISCOSE INTO ZASO₄-CONTAINING BATHS. [1962] [6]p, 9 refs.
Order from SLA \$1. 10 63-10804

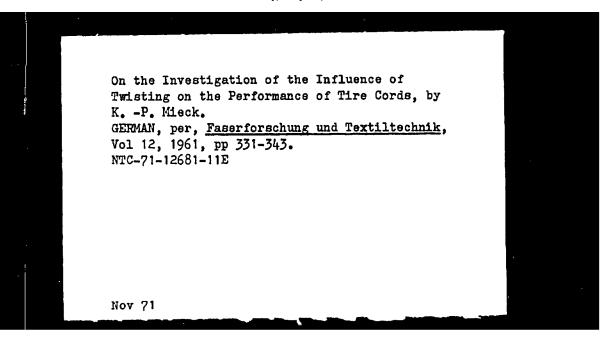
Trans. of Faserforschung und Textiltechnik (Germany) 1961, v. 12, 50. 1, p. 29-30.

DESCRIPTORS: Zinc, Cellulose, *Viscose, Processing, Manufacturing methods, Xanthic acid, Sulfates.

(Materials--Textiles, TT, v. 10, no. 7)

Office of Technical Services





Wet Strength of Leaf-, Stalk- and Fruit Fibres, by W. Bobeth, H. Martin.

Cernan, per, Faserforschung und Tostiltechnik, Vol XII, 1961, pp 587-593.

GB/221

Sci-N/H

Aug. 63

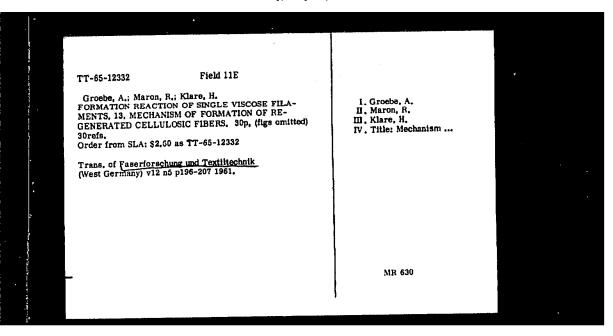
ations, not explainable by the copolymerization equation, can be attributed to the increasing heterogeneity of the polymerization in water, which is brought about by the (Chemistry--Organic, TT, v. 7, no. 9) (over)

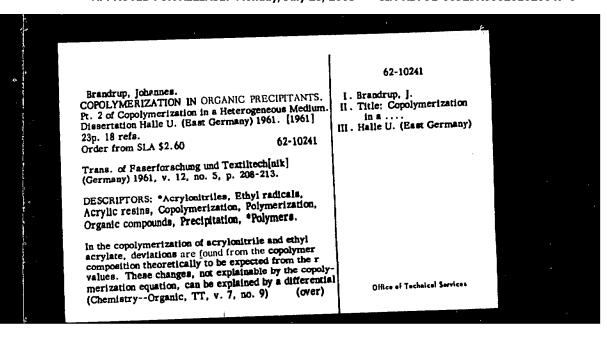
62-10243 Brandrup, Johannes.
COPOLYMERIZATION IN WATER. Pt. 1 of Copolymeri-1. Brandrup, J. zation in a Heterogeneous Medium. Dissertation Halle U. (East Germany) 1961. [1961] 33p. 25 refs. Order from SLA \$3.60 62-10243 II. Title: Copolymerization III. Halle U. (East Germany) Trans. of Fascrforsch[ung] and Textiltech[nik] (Germany) 1961, v. 12, no. 4, p. 133-140. DESCRIPTORS: *Water, *Copolymerization, Acrylonitriles, Polymers, Precipitation, Solutions, Mathematical analysis, Adsorption, Particles. In the copolymerization of acrylonitrile and ethyl acrylate in water, different r values are determined than in the copolymerization in dimethylformamide. These devi-

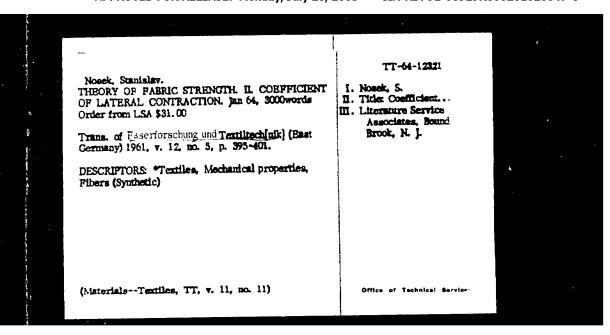
Office of Technical Services

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(over)







62-16006 Roth, Werner and Schroth, Rudi. THE SPINNING AND STRETCHING OF POLYCONDENSATE FILAMENTS. III. STRUCTURAL CHANGES
IN POLYESTER FILAMENTS CAUSED BY HEAT AND
SWELLING AGENTS. [1962] 34p. [39] refs. NLL REF. Order from SLA \$3.60 5828.4F(7134) Trans. of Faserforschung und Textiltechnik (Germany) 1961, v. 12, no. 8, p. 361-369. DESCRIPTORS: *Synthetic fibera, Productioa, Density, Crystallization, Heat treatment, Microstructure, Liquida, Temperature. During the action of heat or organic liquids on un-stretched and stretched polyester filaments, structural changes take place influencing the density, shrinking, and stress-strain-behaviour. The changes in dif-ferently pre-oriented filaments are investigated and re-lated to crystallizity and swelling. (Author) (Materials--Textiles, TT, v. 8, no. 5)

Investigation of the Substantivity of Alkylphosphates Towards Textiles by Means of Labelled Radieactive Compounds, by H. Zeidler, H. Schiedewitz.

GERMAN, per, Faserforsch, Vol 12, 1961, pp 390-395.

NLL Ref: 5828.4F (7361)

Sci-Phys Mar 69

377,280

Analytical Investigations for Separating Mixtures of Monomeric Vinyl Derivatives, by B. Phillip.

GERMAN, per, Faserforschung und Textiltechnik, Vol XII, 1961, pp. 581-587.

Possibly to Come From Contacts per 10 Dec 62 memo USIB INTERNAL USE ONLY

Sci - Chem

Dec 62

Wet Strength of Leaf-, Stalk- and Fruit Fibres, by W. Bobeth, H. Martin.

German, per, Faserforschung und Testiltechnik, Vol XII, 1961, pp 587-593.

GB/221

Sci-M/M

Aug 63

342,028

Simionescu, C., Feldman, D., and Vasiliu, C.
GRAFTING OF CARBOXYMETHYLCELLULOSE WITH
ACRYLONITRILE. [1962] [26]p. 19 refs.
Order from SLA \$2.50

Trans. of Paserforschung und Textiltechnik (Germany)
1962, v. 13, no. 2, p. 70-79.

DESCRIPTORS: *Acrylonitrile polymers, *Carboxymethylcellulose, *Collulose, *Copolymerization,
Polymers, Polymerization, *Graft polymers.

(Materials--Plastics, TT, v. 9, no. 12)

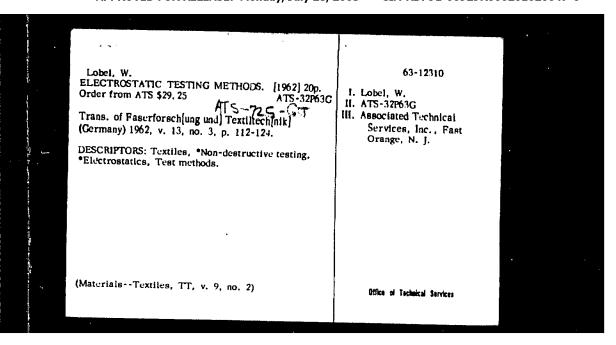
63-10818

I. Simionescu, C.
II. Feldman, D.
III. Vasiliu, C.

**Materials of Paserforschung und Textiltechnik (Germany)
1962, v. 13, no. 2, p. 70-79.

DESCRIPTORS: *Acrylonitrile polymers, *Carboxymethylcellulose, *Copolymerization,
Polymers, Polymerization, *Graft polymers.

Materials of Technical Sarvices



The Study of Structural Changes in Polycopromide Fibers During Deformation in the Direction of the Fiber Length, by M. Jembrich, I. Discik.

(ENGAM, per, Paserforech Textiltech, Vol. 13, No b, 1962, pp 174-178.

Chem Trans Sv 2881.

Sci - Materials

Hay 67

Sych, G. and Reichel, C.
WATER SORPTION BY GRANULATED POLYETHYLENE GLYCOL TEREPHTHALATE AND ITS INFLUENCE ON MELT STABILITY (Uber die Wassersorption an Granuliertem Polyethylenglykoltersphihalat
und ihren Binfluss auf die Schmelzstabilinit).
[14 May 63] [17]p. 23 refs.
Order from SLA \$1.60 63-18275

Trans. of Faserforschung und Textilitechnik (East Germany) 1962, v. 13, no. 6, p. 256-261.

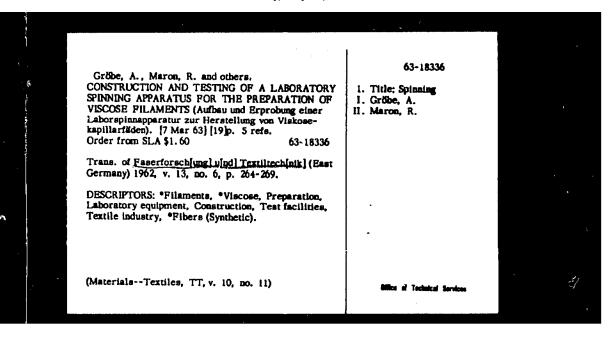
DESCRIPTORS: *Fibers (Synthetic), *Polyester plastics, *Ethylenes, *Citycols, *Pithalates, Particles, Water, *Mylsture, *Sorption, Melting, Stability, Dehydration.

Two methods for determining the water content of granulated polyethylene terephthalate were investigated. The most reliable moisture content values can (Materials--Textiles, TT, v. 10, no. 11) (over)

63-18275

- Title: Polyethylene glycol terephthlate
- I. Sych, G.
- II. Reichel, C.

· Office of Technical Services



Bobeth, Wolfgang and Kittelmann, Walter.
ON THE CAUSES OF STRENGTH LOSS OF RAYON-CORD YARNS. [1962] 13p. 13 refs.
Order from SLA \$1.60 63-10752

Trans. of Paserforschung und Textiltechnik (Germany) 1962, v. 13, no. 7, p. 293-299.

DESCRIPTORS: *Rayon, Threads, Cordage, Tires, Tensile properties, Stretch forming.

The strength loss of rayon cord yarns is influenced by the yarn geometry, yarn construction as well as spinning and testing conditions. In a given rayon yarn the individual filaments do not remain in determined concentric layers but wander through many layers. A uniform tension distribution is not always assured for it depends on many conditions. As the coefficient of friction decreases so should the strength loss for the (Materials--Textiles, TT, v. 10, no. 3) (over)

63-10752

1. Bobeth, W. II. Kittelmann, W.

NRC/Ref C- 4256

Office of Technical Services

APPROVED FOR RELEASE: Monday, July 28, 2003

CIA-RDP91-00929R000201020047-6

Simola, Hames.

DETERMINATION OF DIFFERENT CARBONYL
GROUPS IN CELLULOSE [Über die Bestimmung von
Verschiedensrtigen Carbonylen in Cellulose]. [1963]
[11p] 41refs
Order from SLA \$1.60

TT-64-14423

Trans. of Faserforschung und Textiltechnik (Bast
Germany) 1962, v. 13, no. 7, p. 304-309. (Abstract
avatilable)
Another trans. is avatilable from SLA \$1.60 as
TT-63-18355, 24 Mar 63 [18p].

DESCRIPTORS: *Cellulose, Oxidation, Chemical
analysis, Hydrolysis, *Aldehydes, *Ketones

A number of differently oxidized cellulose samples were
analyzed in using different methods for the carbonyl
determination; it was found that the results obtained perpermitted to draw conclusions about the nature of the
(Chemistry--Analytical, TT, v. 11, no. 7) (over)

Philipp, B. and Miller, K.

MODE OF OPERATION OF VISCOSE ADDITIVES,
PT. II. BEHAVIOR OF VISCOSE SYPRODUCTS
SODEUM TRITHIOCARBONATE AND SODEUM SULFIDE AGAINST ADDITIVES (Chemische Untersuchungen zur Wirkungsweise von Viskosemodifikatoren,
Teil II). [22 Mar 63] [26]p. 15 refs.
Order from SLA \$2.60 63-18341 Trans. of <u>Paserforschung und Tentiltechnik</u> (<u>Bast</u> Germany) 1962, v. 13, no. 9, p. 385-392.

DESCRIPTORS: *Rayon, *Viscose, Additives, *Sodium compounds, Thio radicals, *Carbonates, *Sulfides, *Ethylenes, Glycols, *Amines, *Zinc compounds.

Investigations were aimed at clarifying the question, whether and to which extent the reaction between the viscose by-products, trithiocarbonate and sulfide, and (Materials--Textiles, TT, v. 10, no. 11) (over)

63-18341

- 1. Philipp, B.
- II. Miller, K.
- III. Title: Behavior ...

Office of Technical Services

Cichowski, Z[higniew].

DECOMPOSITION OF XANTHATES IN PRESENCE OF Zn-IONS (Zur Frage der Zersetzung von Xanthogensten bei Anwesenheit von Zn-Ionen). Presented at the Synthetic Fibers Symposium in Weimar 29 Mar 62.

[11 Mar 63] [13]p. 16 refs.

Order from SLA \$1.60 63-18338

Trans. of <u>Faserforschlung</u>] und <u>Textiltechluik</u>] (East Germany) 1962, v. 13, no. 9, p. 393-396.

DESCRIPTORS: *Fibers (Synthetic), *Rayon, *Viscose, *Cellulose, Ethyl radicals, Sucrose, *Kanthic acids, Decomposition, *Zinc, Ions.

The retarding influence of Zn-ions on the decomposition of ethyl and saccharose xanthic acid in homogeneous solutions was investigated. On the basis of the data it was concluded that weakly dissociated stable (Materials--Textiles, TT, v. 10, no. 11) (over)

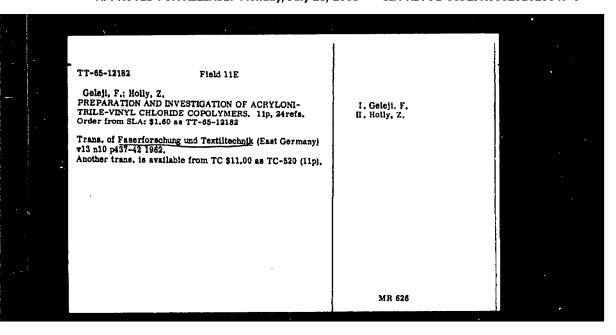
63-18338

1. Cichowaki, Z.
II. Title: Synthetic ...

Office of Technical Services

APPROVED FOR RELEASE: Monday, July 28, 2003

CIA-RDP91-00929R000201020047-6



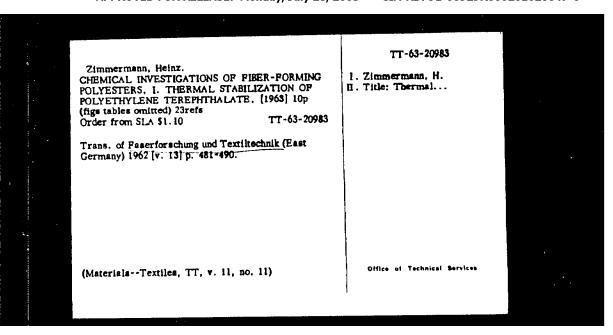
Grohn, Hans, Deters, Wolfgang, Morsching, Margret, and Drause, Wolfgang.

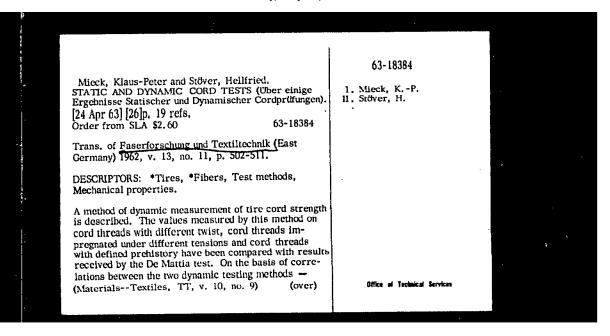
INVESTIGATION ON THE INFLUENCE OF PRE-HYDROLYSIS ON THE CONTENT OF SULPHURIC ACID LIGHNIN IN SPRUCE. [1963] [15p] 42refs
Order from SLA \$1.60

Trans. of Paserforschung und Textilitechnik (Bast Germany) 1962, v. 13, p. 442-449. (Abstract available)

DESCRIPTORS: *Hydrolysis, *Lignin, Wood pulp, Sulfuric acid, Paper chromatography, Carbohydrates,

Resin extracted spruce wood flour was subjected to prehydrolysis with 0.5a HCl for different times of prehydrolysis indicated four different stages in the action of acid. Material losses were used as a basis for calculation of lignin in the original wood. These data were compared with the methoxyl numbers of the sulphuric acid lignin. A plotting of curves for both values against (Materials--Wood, TT, v. 11, no. 4) (over)





Ulbricht, J. and Tscho, S. D.
ACRYLLC FIBERS FROM SOLUTION COPOLYMERS,
PT. III. DYEING PROPERTIES, SECOND-ORDER
TRANSITION TEMERATURE AND THERMAL
DISCOLORATION OF THE FIBERS. Part of thesis by
S. D. Tscho, TH für Chemie Leuna-Meuseburg, 1962.
22 May 63 [20p] lirefs
Order from SLA \$1. 60

Trans. of Fnserforschlung und] Textiltech[nik] (East
Germany) 1962, v. 13, p. 564-570.

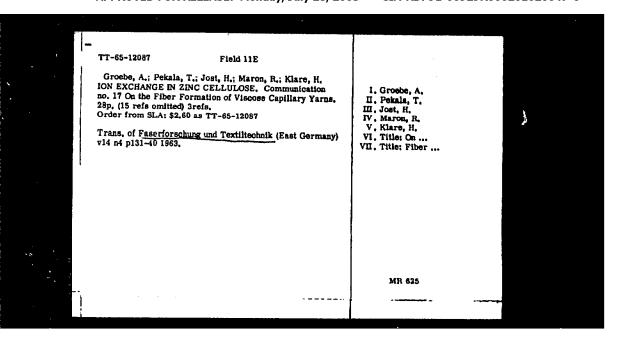
DESCRIPTORS: *Fibers (Symhetic), Discoloration,
Transition temperature, Dyeing, Solutions, Polymerization, *Acrylonitrile polymers, Acrylic resins.

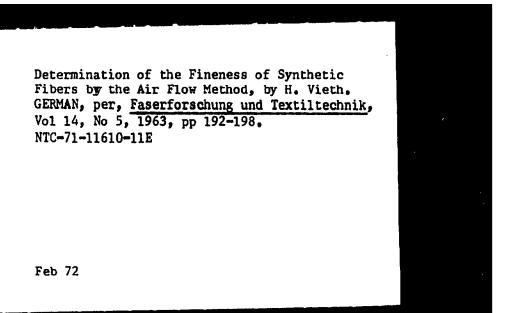
The dyeability of fibers made from solution copolymers,
whose preparation was described in Part II of the series,
was investigated. The absorption of acid dyes increases
(Materials--Textiles, TT, v. 10, no. 10)

(over)

63-18432 Popp. P.
METHOD OF WASTE WATER PURIFICATION FOR
THE PRODUCTION OF SUPERCORD RAYON.
(Verfahren zur Abwasserklärung bei der Herstellung
von Supercordselde). [3 May 63] [29]p. 5 refs.
Order from SLA \$2.60 63-18432 1. Popp, P. Trans, of Faserforschung und Terriltechnik (Bast Germany) 1962, v. 13, no. 10, p. 642-472. DESCRIPTORS: *Rayon, Cordege, Production, *Water supplies, *Wastes (Industrial), Purification, Decontamination, Scwage, Disposal, *Sanitary engineering, Water filters, Filters (Fluid), *Spinning, Viscose Office of Technical Services

(Materials--Textiles, TT, v. 10, no. 11)





High Tenacity Fibers of Regenerated Cellulose III. The Gel Swelling of Viscose Filaments, by H. Schmiedeknecht. 23p. GERMAN, per, Faserforschung und Textiltechnik, Vol 14, No 6, 1963, pp 219-227. SIA TT-66-10539

Sci-Materials Oct 66

313,198

Air Force 8-0002 68-4 R-9677-D 8 Aug 68

Uber die Fadenbildung beim Schmelzspinnen(Teil 1)

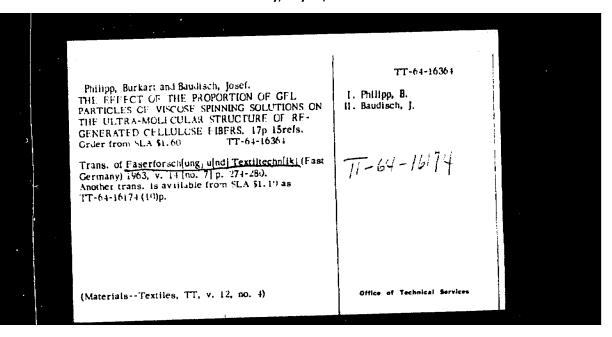
By: V. GRORE & H. VERSAUMER

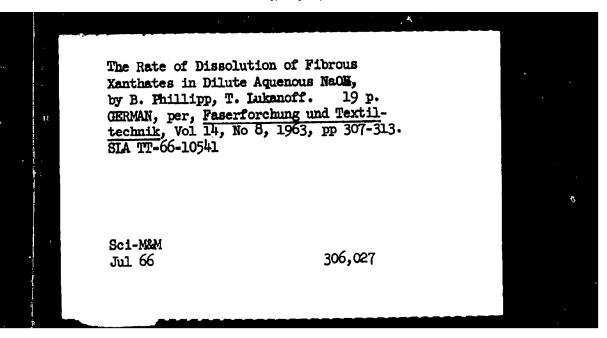
From: Faserforschung und Textiltechnik 14(1963) Heft 6

pp 289 249-256 (8 pp)

German - est for wds:

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Maron, R., Gröbe, A., Klare, H., and Casperson, G.
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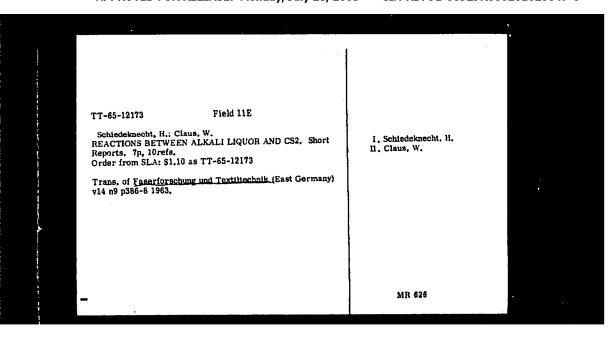
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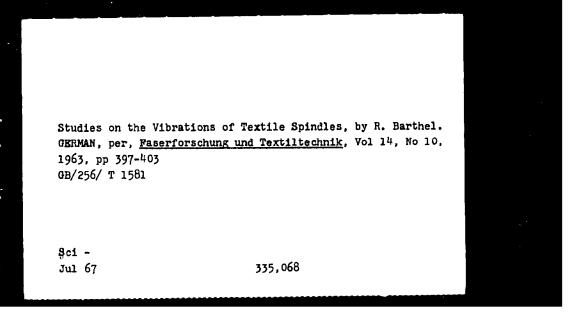
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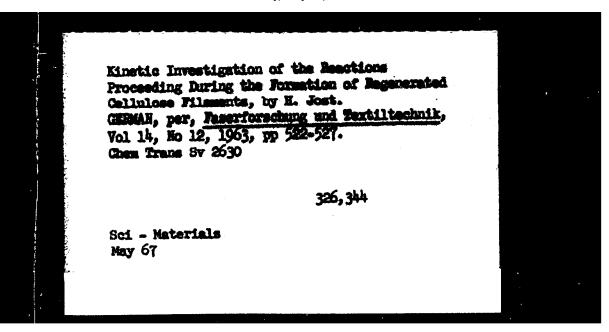
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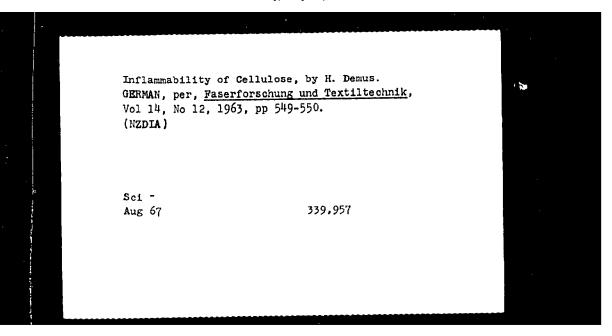
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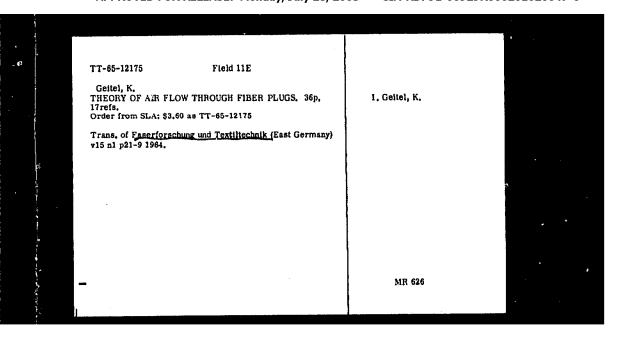
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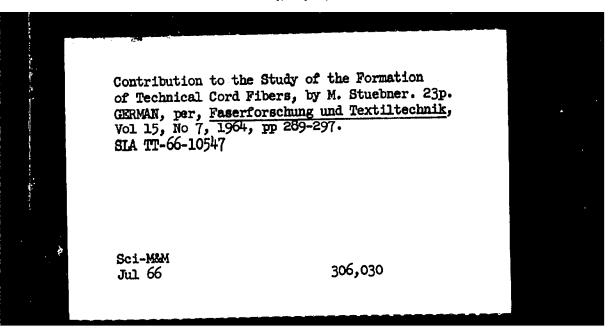
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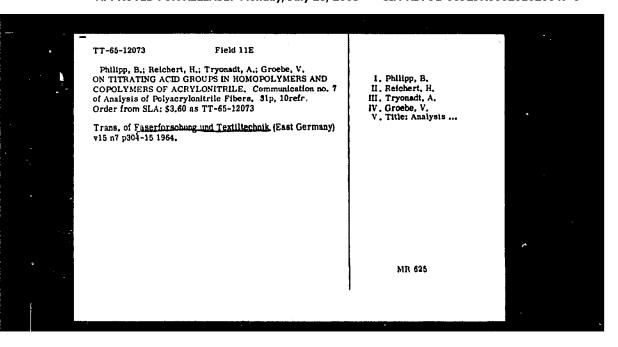
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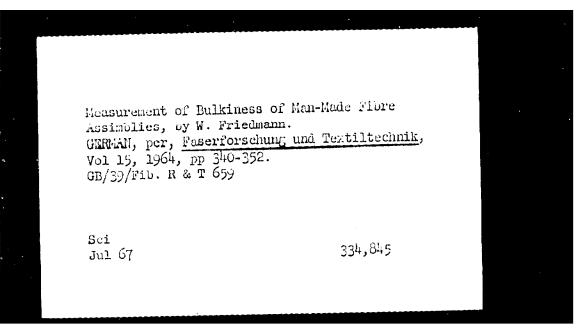
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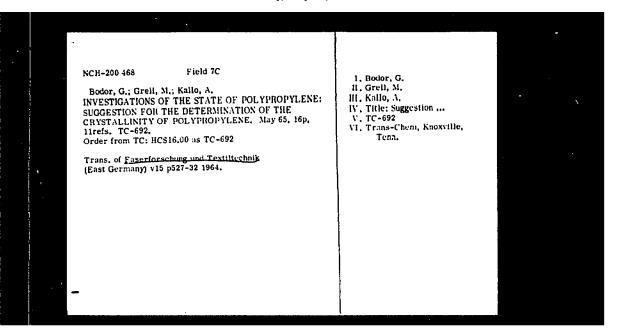
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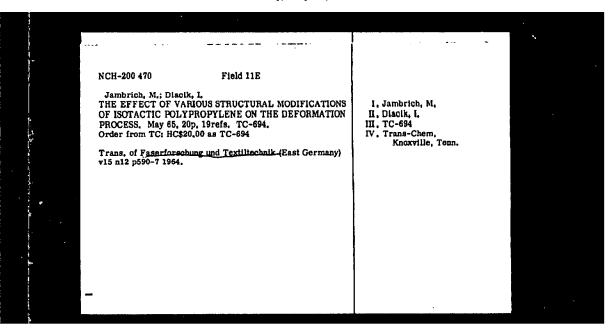
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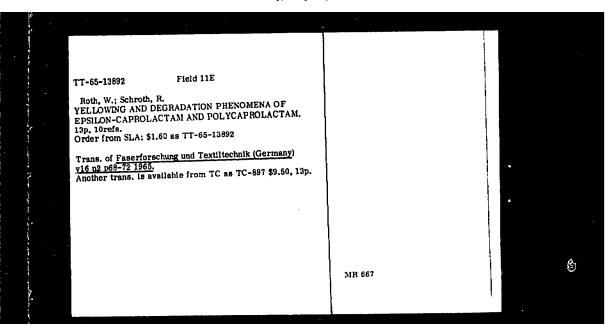
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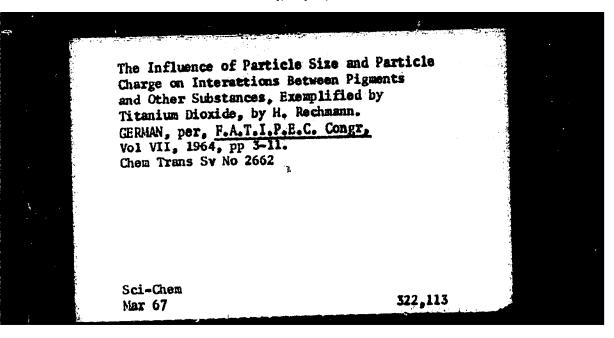
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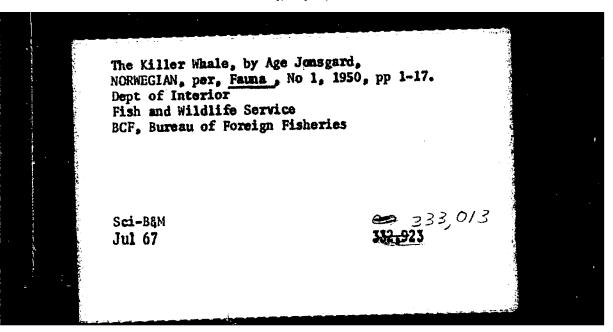
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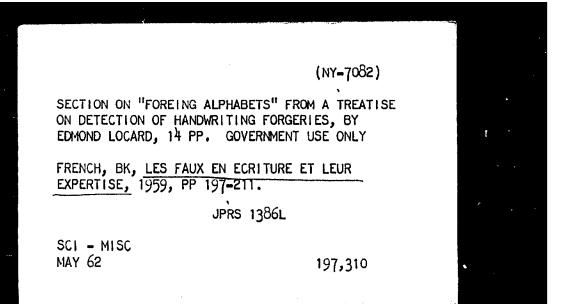
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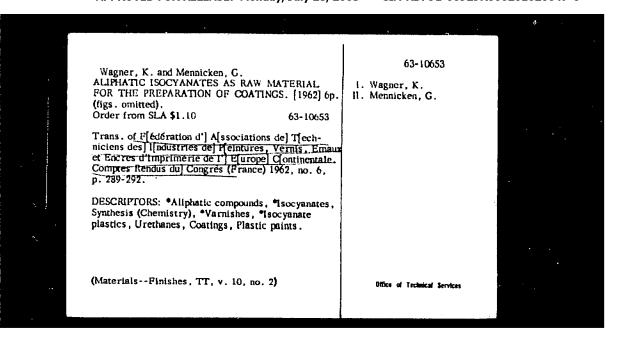
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